

atcctgtacg tgctgttctt cgggttcacc ggcgcgtccc acacgcgcaa gatctccacg 60

ctcccgcgcg cgaacatgaa ggg

83

<210> 12

<211> 75

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

<400> 12

cgggatacgc ggaccacaac acaacggtaa cgttacgcag tactttgaac gtggatgcga 60

cgcccttcat gttcg

75

<210> 13

<211> 89

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

<400> 13

gggttcaccg aggtcttcta cctcatccgc aagcagctga caagaaggtc tccgcgtcct 60

ccggcgaccc gcagaagtac tacggcaag

89

<210> 14

<211> 90

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

<400> 14

cacaacggta acgttacgca gtactttgaa cgtggatgcg acggacttcg cgatcttgag 60

ctccttgccg tagtacttct gcgggtcgcc

90

<210> 15

<211> 84

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

<400> 15

gggttcaccg gccagctcgt cttcacggtc aaggaggcgg cggcgagca gcaggagtcg 60

gcgacgacgc agaaggcgga gaag

84

<210> 16

<211> 90

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

<400> 16

ggaccacaac acaacggtaa cgttacgcag tactttgaac gtggatgcga cgcggtgac 60

ctccttctcc gccttctgcg tcgtcgccga

90

<210> 17

<211> 68

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

<400> 17

tttgatcatg tacatcctgt acgtgctgtt cttcgggttc acccagctcg tcttcacggt 60

caaggagg

68

<210> 18

<211> 100

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

<400> 18

gctgccgatc agccacacga ctggatacgc ggaccacaac acaacggtaa cgttacgcag 60

tactttgaac gtggatgcga ccatgcgcgt gacctccttc

100

<210> 19

<211> 74

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

<400> 19

tttgatcatg tacatcctgt acgtgctgtt cttcgggttc acctacggcc agctcgtctt 60

cacggtcaag gagg

74

<210> 20

<211> 100

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

<400> 20

gctgccgatc agccacacga ctggatacgc ggaccacaac acaacggtaa cgttacgcag 60

tactttgaac gtggatgcga ccgtgacctc cttctccgcc

100

<210> 21

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

<400> 21

gtacatcctg tacgtgctgt tcttcggggt caccggc

37

<210> 22

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

<400> 22

atcctgtacg tgctgttctt cgggttcacc ggc

33

<210> 23

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

<400> 23

acgacgggat acgcggaacca caacacaacg g

31

<210> 24

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

<400> 24

cgggatacgc ggaccacaac acaacgg

27

<210> 25

<211> 93

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer chimeric loop 3 sequence

<220>

<221> CDS

<222> (1)..(93)

<400> 25

acc cag ctc gtc ttc acg gtc aag gag gcg gcg gcg cag cag cag gag 48

Thr Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln Gln Glu

1

5

10

15

tcg gcg acg acg cag aag gcg gag aag gag gtc acg cgc atg gtc 93

Ser Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Arg Met Val

20

25

30

<210> 26

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:chimeric loop 3  
sequence

<400> 26

Thr	Gln	Leu	Val	Phe	Thr	Val	Lys	Glu	Ala	Ala	Ala	Gln	Gln	Gln	Glu
1					5					10				15	

Ser	Ala	Thr	Thr	Gln	Lys	Ala	Glu	Lys	Glu	Val	Thr	Arg	Met	Val
				20				25					30	

<210> 27

<211> 93

<212> DNA

<213> Artificial Sequence

<220>

<221> CDS

<222> (1) .. (93)

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer chimeric loop 3 sequence



&lt;400&gt; 27

acc tac ggc cag ctc gtc ttc acg gtc aag gag gcg gcg gcg cag cag 48

Thr Tyr Gly Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln

1

5

10

15

cag gag tcg gcg acg acg cag aag gcg gag aag gag gtc acg gtc 93

Gln Glu Ser Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Val

20

25

30

&lt;210&gt; 28

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:chimeric loop 3  
sequence

&lt;400&gt; 28

Thr Tyr Gly Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln

1

5

10

15

Gln Glu Ser Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Val

20

25

30

&lt;210&gt; 29

&lt;211&gt; 99

&lt;212&gt; DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer chimeric loop 3 sequence

<220>

<221> CDS

<222> (1) .. (99)

<400> 29

acc tac ggc cag ctc gtc ttc acg gtc aag gag gcg gcg gcg cag cag 48  
Thr Tyr Gly Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln  
1 5 10 15

cag gag tcg gcg acg acg cag aag gcg gag aag gag gtc acg cgc atg 96  
Gln Glu Ser Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Arg Met  
20 25 30

gtc	99
Val	

<210> 30

<211> 33

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:chimeric loop 3

sequence

<400> 30

Thr Tyr Gly Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln

1

5

10

15

Gln Glu Ser Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Arg Met

20

25

30

Val

<210> 31

<211> 87

<212> DNA

<213> Artificial Sequence

<220>

<221> CDS

<222> (1)..(87)

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer chimeric loop 3 sequence

<400> 31

acc cag ctc gtc ttc acg gtc aag gag gcg gcg gcg cag cag cag gag 48

Thr Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln Gln Glu

1

5

10

15

tcg gcg acg acg cag aag gcg gag aag gag gtc acg gtc

87

Ser Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Val

20

25

<210> 32

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:chimeric loop 3  
sequence

<400> 32

Thr Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln Gln Glu

1

5

10

15

Ser Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Val

20

25

<210> 33

<211> 96

<212> DNA

<213> Artificial Sequence

<220>

<221> CDS

<222> (1)..(96)

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer chimeric loop 3 sequence

<400> 33

acc ggc cag ctc gtc ttc acg gtc aag gag gcg gcg gcg cag cag cag 48  
Thr Gly Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln Gln  
1 5 10 15

gag tcg gcg acg acg cag aag gcg gag aag gag gtc acg cgc atg gtc 96  
Glu Ser Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Arg Met Val  
20 25 30

<210> 34

<211> 32

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:chimeric loop 3  
sequence

<400> 34

Thr Gly Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln Gln  
1 5 10 15  
  
Glu Ser Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Arg Met Val  
20 25 30

<210> 35

<211> 90

<212> DNA

<213> Artificial Sequence

<220>

<221> CDS

<222> (1) .. (90)

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer chimeric loop 3 sequence

<400> 35

acc ggc cag ctc gtc ttc acg gtc aag gag gcg gcg gcg cag cag cag 48

Thr Gly Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln Gln

1

5

10

15

gag tcg gcg acg acg cag aag gcg gag aag gag gtc acg gtc 90

Glu Ser Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Val

20

25

30

<210> 36

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:chimeric loop 3  
sequence

<400> 36

Thr Gly Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln Gln  
1 5 10 15

Glu Ser Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Val  
20 25 30

<210> 37

<211> 96

<212> DNA

<213> Artificial Sequence

<220>

<221> CDS

<222> (1)..(96)

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer chimeric loop 3 sequence

<400> 37

acc tac ggc cag ctc gtc ttc acg gtc aag gag gcg gcg gcg cag cag 48  
Thr Tyr Gly Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln  
1 5 10 15

cag gag tcg gcg acg acg cag aag gcg gag aag gag gtc acg cgc gtc 96  
Gln Glu Ser Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Arg Val

20

25

30

&lt;210&gt; 38

&lt;211&gt; 32

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence:chimeric loop 3  
sequence

&lt;400&gt; 38

Thr Tyr Gly Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln

1

5

10

15

Gln Glu Ser Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Arg Val

20

25

30

&lt;210&gt; 39

&lt;211&gt; 90

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (1) .. (90)

&lt;220&gt;



<223> Description of Artificial Sequence:oligonucleotide  
 primer chimeric loop 3 sequence

<400> 39

acc cag ctc gtc ttc acg gtc aag gag gcg gcg gcg cag cag cag gag 48

Thr Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln Gln Glu

1 5 10 15

tcg gcg acg acg cag aag gcg gag aag gag gtc acg cgc gtc 90

Ser Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Arg Val

20 25 30

<210> 40

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:chimeric loop 3  
 sequence

<400> 40

Thr Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln Gln Glu

1 5 10 15

Ser Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Arg Val

20 25 30

<210> 41

<211> 93

<212> DNA

<213> Artificial Sequence

<220>

<221> CDS

<222> (1) .. (93)

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer chimeric loop 3 sequence

<400> 41

acc ggc cag ctc gtc ttc acg gtc aag gag gcg gcg gcg cag cag cag 48

Thr Gly Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln Gln

1

5

10

15

gag tcg gcg acg acg cag aag gcg gag aag gag gtc acg cgc gtc 93

Glu Ser Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Arg Val

20

25

30

<210> 42

<211> 31

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:chimeric loop 3  
sequence

<400> 42

Thr Gly Gln Leu Val Phe Thr Val Lys Glu Ala Ala Ala Gln Gln Gln

1

5

10

15

Glu Ser Ala Thr Thr Gln Lys Ala Glu Lys Glu Val Thr Arg Val

20

25

30

<210> 43

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: high affinity  
analog

<400> 43

Val Leu Glu Asp Leu Lys Ser Cys Gly Leu Phe Gly

1

5

10

<210> 44

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: random peptide

&lt;400&gt; 44

Ser Ser Val Phe Leu Val Val Asp Arg Ser Arg

1

5

10

&lt;210&gt; 45

&lt;211&gt; 91

&lt;212&gt; DNA

&lt;213&gt; Halobacterium salinarium

&lt;400&gt; 45

cctgcagggt cgctggactc atccacctca gcattcaccc tgctctttgg tgtgctactc 60

gttctatgac accctcggac caatactggc t

91

&lt;210&gt; 46

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; human

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (2) .. (265)

&lt;400&gt; 46

g tac atc ctg tac gtg ctg ttc ttc ggg ttc acc cgc gtc ttc cag gag 49

Tyr Ile Leu Tyr Val Leu Phe Phe Gly Phe Thr Arg Val Phe Gln Glu

1

5

10

15

gcg aag cgc cag ctc cag aag atc gac aag tcc gag ggc cgc ttc cac 97  
 Ala Lys Arg Gln Leu Gln Lys Ile Asp Lys Ser Glu Gly Arg Phe His

20

25

30

gtc cag aac ctc tcc cag gtc gag cag gac ggc cgc acc ggc cac ggc 145  
 Val Gln Asn Leu Ser Gln Val Glu Gln Asp Gly Arg Thr Gly His Gly

35

40

45

ctc cgc cgc tcc tcc aag ttc tgc ctc aag gag cac aag gcg ctc aag 193  
 Leu Arg Arg Ser Ser Lys Phe Cys Leu Lys Glu His Lys Ala Leu Lys

50

55

60

acc ctc gag gtc gca tcc acg ttc aaa gta ctg cgt aac gtt acc gtt 241  
 Thr Leu Glu Val Ala Ser Thr Phe Lys Val Leu Arg Asn Val Thr Val

65

70

75

80

gtg ttg tgg tcc gcg tat ccc tcg t 266  
 Val Leu Trp Ser Ala Tyr Pro Ser

85

&lt;210&gt; 47

&lt;211&gt; 88

&lt;212&gt; PRT

&lt;213&gt; human

&lt;400&gt; 47

Tyr Ile Leu Tyr Val Leu Phe Phe Gly Phe Thr Arg Val Phe Gln Glu

1

5

10

15

Ala Lys Arg Gln Leu Gln Lys Ile Asp Lys Ser Glu Gly Arg Phe His

20

25

30

Val Gln Asn Leu Ser Gln Val Glu Gln Asp Gly Arg Thr Gly His Gly

35

40

45

Leu Arg Arg Ser Ser Lys Phe Cys Leu Lys Glu His Lys Ala Leu Lys

50

55

60

Thr Leu Glu Val Ala Ser Thr Phe Lys Val Leu Arg Asn Val Thr Val

65

70

75

80

Val Leu Trp Ser Ala Tyr Pro Ser

85

<210> 48

<211> 90

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide

primer

<400> 48

ggatgcgacc tcgagggctct tgagcgcctt gtgctccttg aggcagaact tggaggagcg 60

gcggaggccg tggccggtgc ggccgtcctg

90

<210> 49

<211> 89

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

<400> 49

ggatacgcgg accacaacac aacggtaacg ttacgcagta ctttgaacgt ggatgcgacc 60

tcgagggtct tgagcgcctt gtgctcctt

89

<210> 50

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

<400> 50

tgtacatgta catcctgtac gtgc

24

<210> 51

<211> 90

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

<400> 51

atcctgtacg tgctgttctt cgggttcacc cgcgtcttcc aggaggcgaa gcgccagctc 60

cagaagatcg acaagtccga gggccgcttc

90

<210> 52

<211> 90

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

<400> 52

aagcgccagc tccagaagat cgacaagtcc gagggccgct tccacgtcca gaacctctcc 60

caggtcgagc aggacggccg caccggccac

90

<210> 53

<211> 35

<212> DNA



<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:oligonucleotide  
primer

a!  
Cont  
<400> 53

gctgccgatc agccacacga ctggatacgc ggacc

35

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